

Summary of Studies Supporting USDA Product Licensure

Establishment Name	Boehringer Ingelheim Animal Health USA Inc.					
USDA Vet Biologics Establishment Number	124					
Product Code	17A2.V2					
True Name	Newcastle Disease Vaccine, VG/GA Strain, Live Virus					
Tradename(s) / Distributor or Subsidiary (if different from manufacturer)	Avinew - No distributor specified					
Date of Compilation Summary	May 17, 2019					

Disclaimer: Do not use the following studies to compare one product to another. Slight differences in study design and execution can render the comparisons meaningless.

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Study Type	Efficacy						
Pertaining to	Newcastle disease virus (NDV)						
Study Purpose	Demonstrate efficacy against NDV						
Product Administration	Coarse spray						
Study Animals	Chickens at day-of-age						
Challenge Description	Birds were challenged with GB Texas strain of Newcastle disease						
	virus 28 days after vaccination						
Interval observed after	Birds were observed daily for 14 days after challenge for clinical						
challenge	signs of disease.						
Results	Vaccinates and controls were evaluated for Newcastle disease						
	clinical signs per the criteria in 9 CFR 113.329(c)(4).						
	Birds with clinical signs or mortality due to NDV:						
	Group 4 (Vaccinates): 0/30						
	Group 5 (Controls): 29/29						
	Requirements of 9 CFR 113.329(c)(4) were met.						
	Raw data on attached page.						
USDA Approval Date	November 21, 2013						
USDA Appi ovai Date	140vember 21, 2013						

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Table 1: List of affected birds.

Group	Bird ID	Death	Outcome for Newcastle Disease Virus			
	794	+	Positive			
	836	+ Positive				
	793	+	Positive			
	792	+	+ Positive			
	832	+ Positive				
	835	+ Positive				
	791	+	Positive			
	840	+	Positive			
	800	+	Positive			
	834	+	Positive			
	839	+	Positive			
	799	+	Positive			
	729	+	Positive			
_	728	+	+ Positive			
5 Controls	798	+	Positive			
Controls	727	+	Positive			
	726	+	Positive			
	838	+	Positive			
	797	+	Positive			
	725	+	Positive			
	724	+	Positive			
	796	+	Positive			
	723	+	Positive			
	722	+	Positive			
	831	+	Positive			
	833	+	Positive			
	837	+	Positive			
	795	+	Positive			
	721	+ Positive				

^{+ =} Birds were found dead. All deaths were attributable to Newcastle Disease Virus.

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Study Type	Safety								
Pertaining to	ALL								
Study Purpose	Demonstrate safety under field conditions								
Product Administration	1 dose by coarse spray								
Study Animals	Chickens at day-of-age								
Challenge Description	Not applicable								
Interval observed after	Mortality was recorded daily for 21 days after vaccination. Air								
challenge	sacculitis condemnation rates were collected.								
Results									
	Location	Treatment	Total Placed	21 Day Mortality	% Mortality	% Condem- nations			
	1*	Spray	75,061	2300	3.1	0.00			
	1*	Control	75,119	917	1.2	0.01			
	2	Spray	36,400	703	1.9	0.02			
	2	Control	36,400	691	1.9	0.09			
	3	Spray	65,000	1178	1.8	0.00			
	3	Control	59,000	1407	2.4	0.00			
	4*	Spray	45,100	2957	6.6	0.17			
	4*	Control	45,100	2223	4.9	0.19			
	*For both sites with higher mortality in the test (spray) than control houses, birds from different hen flocks were used for the test and control houses. Information from the cooperators strongly suggested a connection between the reported mortality and the hen flocks that provided chicks for the test houses. No adverse reactions were observed.								
USDA Approval Date	July 18, 2016								

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